

Serial No.: 10/003,290
Atty. Docket No.: P67379US0

REMARKS

The Final Office Action mailed January 15, 2004, has been carefully reviewed and by this Amendment, claims 1 and 4 have been amended, and claims 9-18 have been canceled. Claims 1-8 are pending in the application.

The Examiner rejected claims 1-8, 17 and 18 under 35 U.S.C. 112, first paragraph, as not complying with the written description requirement.

By this Amendment, claims 1 and 4 have been amended to remove the subject matter upon which the Examiner based his rejection, and also to clarify the claimed invention. The additive amendments to claims 1 and 4 relating to the voltage range are supported in the specification at page 10, lines 14-17.

As set forth in amended claims 1 and 4, the present invention is directed to a method for converting the wavelength of a signal beam combined to a pump beam, and a wavelength converter for converting the wavelength of a signal beam combined to a pump beam, having a channel type polymeric waveguide which includes a nonlinear polymer in the middle of the waveguide. The nonlinear polymer is poled in one predetermined direction by applying a voltage in a range of about 120 V/ μ m to 130 V/ μ m to the polymeric waveguide for satisfying a birefringence phase matching between the pump and the signal beam to the polymeric waveguide. The poling in one predetermined direction is clearly shown in Figures 1B, 3A and 3B, and the voltage range is specified in the specification at page 10, line 15.

In U.S. Patent No. 5,943,464 to Khodja, previously cited against the present invention in Paper No. 7, the polymer is poled in two reversed directions perpendicular to the

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direction in which the signal beam is passed through the polymer waveguide at the polymer waveguide. Therefore, Khodja includes a periodically arranged grating which is not necessary to the present invention.

For at least the foregoing reasons, amended claims 1 and 4 are presented as being in condition for allowance. Claims 2-8 are also in condition for allowance as claims properly dependent on an allowable base claim and for the subject matter contained therein.

Favorable reconsideration, entry of the Amendment and allowance of the application is requested. Should the Examiner have any questions or comments, the Examiner is cordially invited to telephone the undersigned attorney so that the present application can receive an early Notice of Allowance.

Respectfully submitted,

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